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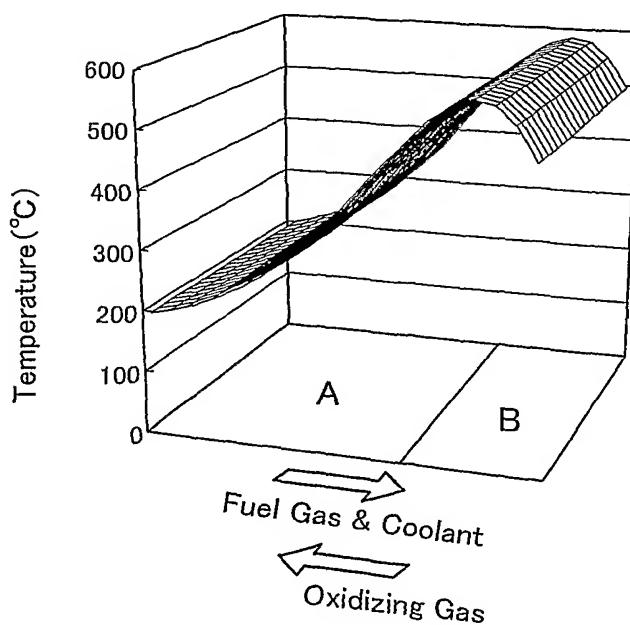
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## (54) Title: FUEL CELL



(57) Abstract: A fuel cell of the invention has a hydrogen permeable metal layer, which is formed on a plane of an electrolyte layer that has proton conductivity and includes a hydrogen permeable metal. The fuel cell includes a higher temperature zone and a lower temperature zone that has a lower temperature than the higher temperature zone. The hydrogen permeable metal layer includes a lower temperature area A corresponding to the lower temperature zone and a higher temperature area B corresponding to the higher temperature zone. The lower temperature area A and the higher temperature area B have different settings of composition and/or layout of components. This arrangement effectively prevents potential deterioration of cell performance due to an uneven distribution of internal temperature of the fuel cell including the hydrogen permeable metal layer.



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